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(11)

**EP 0 865 020 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
12.05.1999 Bulletin 1999/19

(51) Int Cl.<sup>6</sup>: **G09G 3/20, G09G 1/16**

(43) Date of publication A2:  
16.09.1998 Bulletin 1998/38

(21) Application number: **98301142.0**

(22) Date of filing: **17.02.1998**

(84) Designated Contracting States:  
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC  
NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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(30) Priority: **24.02.1997 US 804623**

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**(54) A method and apparatus for upscaling an image**

(57) An upscaler for upscaling a source image to generate a destination image without having to maintain the aspect ratio (ratio of the length of the source image to that of the width) of the source image. The source image pixel data is received at a first clock rate and the destination image is generated at a second clock rate.

The second clock rate is computed such that the frame rate at which the source image is received is the same as the frame rate at which the upscaled image is generated. Because of such a clock rate, the upscaler may be implemented only a line buffer for upscaling a source image. Prior systems may require large memories such as frame buffers for achieving similar functionality.

**FIG. 1**



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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 1142

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24 March 1999	Examiner Corsi, F
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			



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Application Number  
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